## PATENT COOPERATION TREATY

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#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

[ ]						
Applicant's or agent's file reference PE-18794-PCT	FOR FURTHER ACTIO	TION SeeNotificationofTransmittalofInternationalPreliminary Examination Report (Form PCT/IPEA/416)				
International application No.	International filing date(day/n	• •	Priority date (day/monti	• •		
PCT/KR2003/000299	12 FEBRUARY 2003	· · · · · · · · · · · · · · · · · · ·	13 DECEMBER 2002	(13.12.2002)		
International Patent Classification (IPC) IPC7 C23F 13/00  Applicant KOREA POWER ENGINEE	·		-	<del></del>		
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<ol> <li>This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</li> <li>This REPORT consists of a total of3 sheets, including this cover sheet.</li> <li>This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</li> </ol>						
These annexes consist of a total ofsheets.						
3. This report contains indications relating to the following items:  I Basis of the report II Priority III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV Lack of unity of invention V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI Certain documents cited VII Certain defects in the international application VIII Certain observations on the international application						
Date of submission of the demand	Da	e of completion of	this report			
26 JANUARY 2004	(26.01.2004)	29 MARCH	2005 (29.03.2005)			
Name and mailing address of the IPEA	1	thorized officer				
Korean Intellectual Property 920 Dunsan-dong, Seo-gu, Republic of Korea	y Office Daejeon 302-701,	KIM, Seong Ko	n			
Facsimile No. 82-42-472-7140	Te	ephone No. 82-42	2-481-5527	THENTY		

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International aplication No.
PCT/KR2003/000299

Γ	I. Basi	is of the report					
1.	With	regard to the elements of the international application:*					
	the international application as originally filed						
l		the description:					
ĺ		pages	, as originally filed				
l		hages	, filed with the demand				
		pages, filed with the letter of					
	لــا	pages	an originally filed				
		pages, as amended (together with	, as originally filed any statment) under Article 19				
		pages	, filed with the demand				
		, mod with the letter of					
	لــا	the drawings: pages					
		pages	, as originally filed , filed with the demand				
		pages, filed with the letter of	, med with the demand				
	Ш	the sequence listing part of the description:					
		pagespages	, as originally filed				
•		pages, filed with the letter of	, filed with the demand				
٠.							
<b>2.</b>	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.  These elements were available or furnished to this Authority in the following language mhich is the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).  These elements were available or furnished to this Authority in the following language which is the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).						
3	. Witi	the language of the translation furnished for the purposes of international preliminary exactor 55.3).  the regard to any nucleotide and/or amino acid sequence disclosed in the international application was carried out on the basis of the sequence listing:					
		contained in the international application in written form.					
		filed together with the international application in computer readable form.					
		furnished subsequently to this Authority in written form.					
		furnished subsequently to this Authority in computer readable form					
		The statement that the subsequently furnished written sequence listing does not go beyond the disc losure in the international applicationas as filed has been furnished.  The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.					
4.		The amendments have resulted in the cancellation of:  the description, pages the claims, Nos.					
		the drawings, sheets					
•		This report has been established as if (some of) the amendments had not been made, sinc go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	e they have been considered to				
	Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed." and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).						
**	** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.						

#### INTERNATIONAL PRELIMINARY EXAMINATION

International aplication No. PCT/KR2003/000299

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Claims 1-13 Claims None

None

Inventive step (IS) Claims

ıs <u>1-13</u>

None

YES NO

YES

NO

Industrial applicability (IA)

Claims 1-13

1-13 YES

Claims

Claims

None NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: JP 01-184290 A (THOSIBA CORP.) 21 July 1989 (a family of KR 1989-12148 A identified in the international search report)

D2: KR 1992-2632 U (KIM, YONG SIK) 25 February 1992

D3: JP 11-217685 A (SATO KOGYO CO., LTD.) 10 August 1999

1. Novelty and Inventive Step

The inventions as defined in claims 1 to 8 are apparatuses for cathodic protection in an environment where thin film corrosive fluids are formed, which protects from corrosion an object exposed to the thin film corrosive fluids, by artificially adjusting a potential of the object, the apparatus comprising a DC power supply and an anodic assembly which includes an insulating filter member, an anodic member, an electrode lead line, and an absorption conductive member. The inventions as defined claims 9 to 13 are methods comprising the steps of: providing an anodic assembly, installing the anodic assembly, forming a resin coating layer on the exposed surface of the object to be protected, and flowing a current between the anodic member of the anodic assembly and the cathode.

D1 discloses a cathodic protection apparatus comprising a sacrificial anode for preventing galvanic corrosion in a sea water circulation system of an all-titanium heat exchanger. D2 discloses a coated anode jig for electroplating. D3 discloses a method and an apparatus for corrosion protection by allowing a protective current to flow from an external power source through the object to be protected which is exposed to an atmospheric environment and whose surface has a coating film, where an anode is provided to the coating film.

No individual citations disclose the anodic assembly, in a thin film corrosive fluids environment, comprising a filter member and a absorption conductive member. Therefore, the subject matter of claims 1 to 13 is considered to be novel (PCT Article 33(2)). Also, since none of the above citations teach or fairly suggest the anodic assembly, in a thin film corrosive fluids environment, comprising the filter member and the absorption conductive member, the subject matter of claims 1 to 13 seems to be inventive (PCT Article 33(3)).

2. Industrial applicability

All claims are considered to be industrially applicable (PCT Article 33(4)).